## COMPLETE SET OF CLAIMS

- 1-7. (Cancelled)
- 8. (Original) A method for processing a microelectronic workpiece having a front side, a back side, and an edge comprising the steps of:

placing the microelectronic workpiece into a chamber;

immersing the front side, back side, and edge of the microelectronic workpiece within a first processing fluid while rotating the microelectronic workpiece;

rinsing and drying the microelectronic workpiece;

immersing the back side and edge of the microelectronic workpiece with a second processing fluid while rotating the microelectronic workpiece such that the front side of the microelectronic workpiece is not exposed to the second processing fluid; and

rinsing and drying the microelectronic workpiece.

- 9. (Original) The method according to claim 8, further comprising the step of introducing vibrational energy to the chamber during the step of immersing the microelectronic workpiece within the first processing fluid.
- 10. (Original) The method of claim 9, wherein the vibrational energy is introduced adjacent to the edge of the microelectronic workpiece.

- 11. (Original) The method of claim 9, wherein the vibrational energy is introduced adjacent to the back side of the microelectronic workpiece.
- 12. (Original) The method according to claim 8, further comprising the step of introducing vibrational energy to the chamber during the step of immersing the microelectronic workpiece with the second processing fluid.
- 13. (Original) The method of claim 12, wherein the vibrational energy is introduced adjacent to the edge of the microelectronic workpiece.
- 14. (Original) The method of claim 12, wherein the vibrational energy is introduced adjacent to the back side of the microelectronic workpiece.
- 15. (Original) The method according to claim 8, wherein the first processing fluid includes a reactive agent selected from the group consisting of H<sub>2</sub>SO<sub>4</sub>, HF, and TMAH.
- 16. (Original) The method according to claim 8, wherein the second processing fluid comprises a mixture of HF and  $H_2O_2$ .
- 17. (Original) The method of claim 8, further comprising the step of rotating the microelectronic workpiece during one or both of the rinsing and drying steps.

18-21. (Cancelled)

22. (New) A method for processing a workpiece having a front side, a back side, and an edge comprising the steps of:

immersing the front side, back side, and edge of the microelectronic workpiece into a first processing fluid;

rinsing the workpiece;

immersing the back side and edge of the workpiece into a second processing fluid with the front side of the workpiece not exposed to the second processing fluid; and

rotating the workpiece during at least one of the immersing steps.

- 23. (New) The method according to claim 22, further comprising the step of introducing vibrational energy to the workpiece during at least one of the immersing steps.
- 24. (New) The method of claim 23, wherein the vibrational energy is introduced adjacent to the edge of the workpiece.
- 25. (New) The method of claim 23, wherein the vibrational energy is introduced adjacent to the back side of the workpiece.

- 26. (New) The method according to claim 22, further comprising the step of
- 27. (New) The method according to claim 22, wherein the second processing fluid comprises a mixture of HF and  $H_2O_2$ .
- 28. (New) The method of claim 22 further comprising the step of rinsing and drying the workpiece, after immersing the back side and edge into the second processing fluid.
- 29. (New) The method of claim 28 further comprising the step of drying the workpiece after the first rinsing step.
- 30. (New) The method of claim 29, further comprising the step of rotating the workpiece during one or both of the rinsing and drying steps.
- 31. (New) A method for processing a workpiece having a front side, a back side, and an edge comprising the steps of:

exposing at least the front side of the workpiece to a first processing fluid, while rotating the workpiece;

rinsing the workpiece;

treating the workpiece with ozone.

exposing the back side and the edge of the workpiece to a second processing fluid, such that the front side of the workpiece is not exposed to the second processing fluid; and

rinsing and drying the workpiece.

- 32. (New) The method of claim 22, further including the step of switching the vibrational energy on and off.
- 33. (New) The method of claim 22, further including the step of varying the intensity of the vibrational energy.